

Gain And Phase Balanced Amplifier Redundancy System

Abstract

An amplifier redundancy system includes an amplifier receiving signals from a first input switch when the switch is in a side port position. The system further includes a first output switch, in a side port position, receiving signals from the amplifier. A second amplifier receives signals from the first input switch through a second input switch and generates amplified signals therefrom. The second input switch also receives signals from the first input switch when the first input switch is in the side port position. The first input switch is initially in the side port position but switches to a through port position in response to a failure in the second amplifier. A second output switch is in a through port position and switches to a side port position and receives signals through the first output switch in response to the failure in the second amplifier.